WebWSPMS – An Overview

WebWSPMS is WSDOT's principal application for pavement asset management. It is a web-based application that is accessed only through the WSDOT intranet. WebWSPMS contains data available from several different sources within WSDOT and provides an easy and intuitive user interface for accessing and viewing the data.

What Data is Available from WebWSPMS?

While WebWSPMS is managed by the Pavements Branch of the WSDOT State Materials Laboratory, it aggregates and analyzes data from several business areas within WSDOT. The following is a list of the offices and types of data used by the WSPMS:

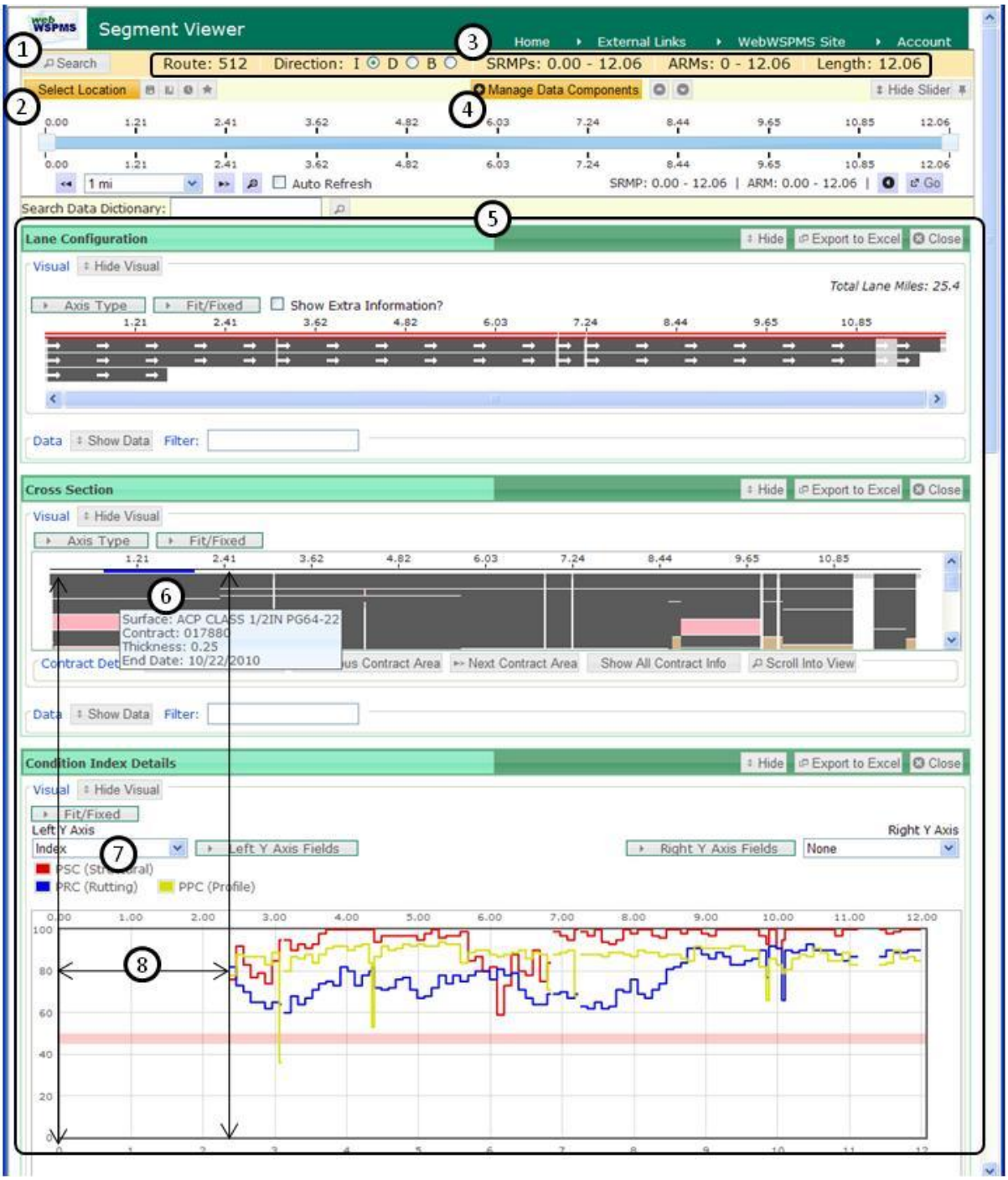
- GIS & Roadway Data Office (GRDO)
    - Roadway Configuration
    - Location Information
    - Contract History
- Statewide Travel and Collision Data Office (STCDO)
    - Traffic Information
- Capital Program Management and Development (CPDM)
    - Capital Projects
- Maintenance
    - Pavement Activities completed by Maintenance
- Construction
    - Construction contract costs and milestones
- Pavements
    - Condition Information
    - Imagery
    - Data Synthesis and Analysis

Additionally, WebWSPMS provides tools for users to share information. This may take the form of making and sharing notes about specific sections of road, creating plans of action for fixing deficiencies, or leaving comments about existing pieces of data.

How is the Data Viewed in WebWSPMS?

The principal method for viewing data within WebWSPMS is through the Segment Viewer. The Segment Viewer is a page that lets the user:

1) Pick any segment of Washington State roadway. A user may already have a specific segment in mind or may use the WebWSPMS Search feature to find segments that meet desired criteria.
2) Load data related to the segment into a "Straight Line Diagram" interface. Each different type of data that can be loaded is called a Data Component.



Here is an example of the Segment Viewer page within WebWSPMS. Some features are highlighted numerically; 1) WebWSPMS Search Feature 2) Opens a dialog that allows the user to select any arbitrary segment 3) The current segment being analyzed 4) Opens a dialog that allows the user to load Data Components 5) The Data Component Area: Three Data Components are shown: Lane Configuration, Cross Section, and Condition Index Details. WebWSPMS Users choose which Data Components to load and what order to display them in. Notice how each Data Component is aligned according to milepost, allowing them to be stacked into a Straight Line Diagram. 6) And 7) Demonstrate the interactivity of the Segment Viewer. 6) Demonstrates information that appears when hovering over a piece of the Cross Section Diagram. 7) Graphs allow the user to change axis on the fly. Other axes available to this Data Component are Rutting and IRI. 8) Why are there no condition indices for this section? The answer lies in the Cross Section Diagram. Sections that have just been resurfaced to not have condition indices calculated for them. This is just a simple example of using the Segment Viewer in a Straight Line Diagram fashion.

There are over 30 different Data Components, nearly all of which contain a visual and tabular component. This power and flexibility facilitates efficient and comprehensive decision making, at the Regional *and* Agency level, concerning the preservation of Washington State roads.